FIG. 1

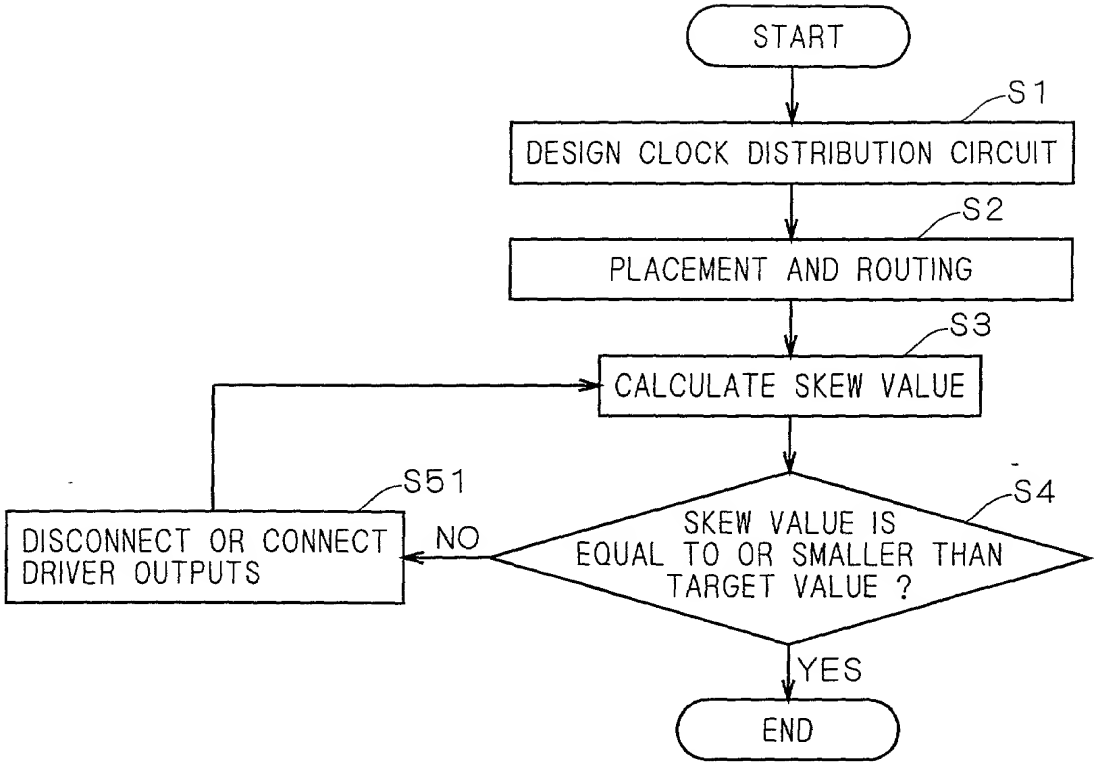

START
S1
DESIGN CLOCK DISTRIBUTION CIRCUIT
S2
PLACEMENT AND ROUTING
S3
CALCULATE SKEW VALUE
S4
SKEW VALUE IS EQUAL TO OR SMALLER THAN TARGET VALUE ?
NO
S51
DISCONNECT OR CONNECT DRIVER OUTPUTS
YES
END

FIG. 2

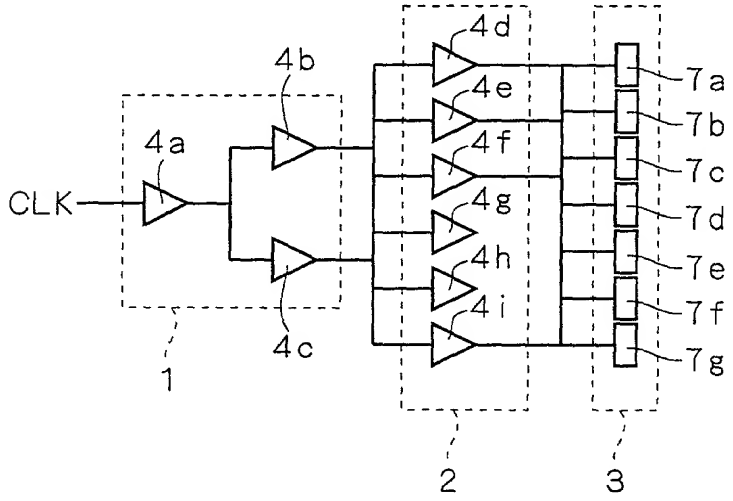

CLK
4a
4b
4c
4d
4e
4f
4g
4h
4i
7a
7b
7c
7d
7e
7f
7g
1
2
3

FIG. 3

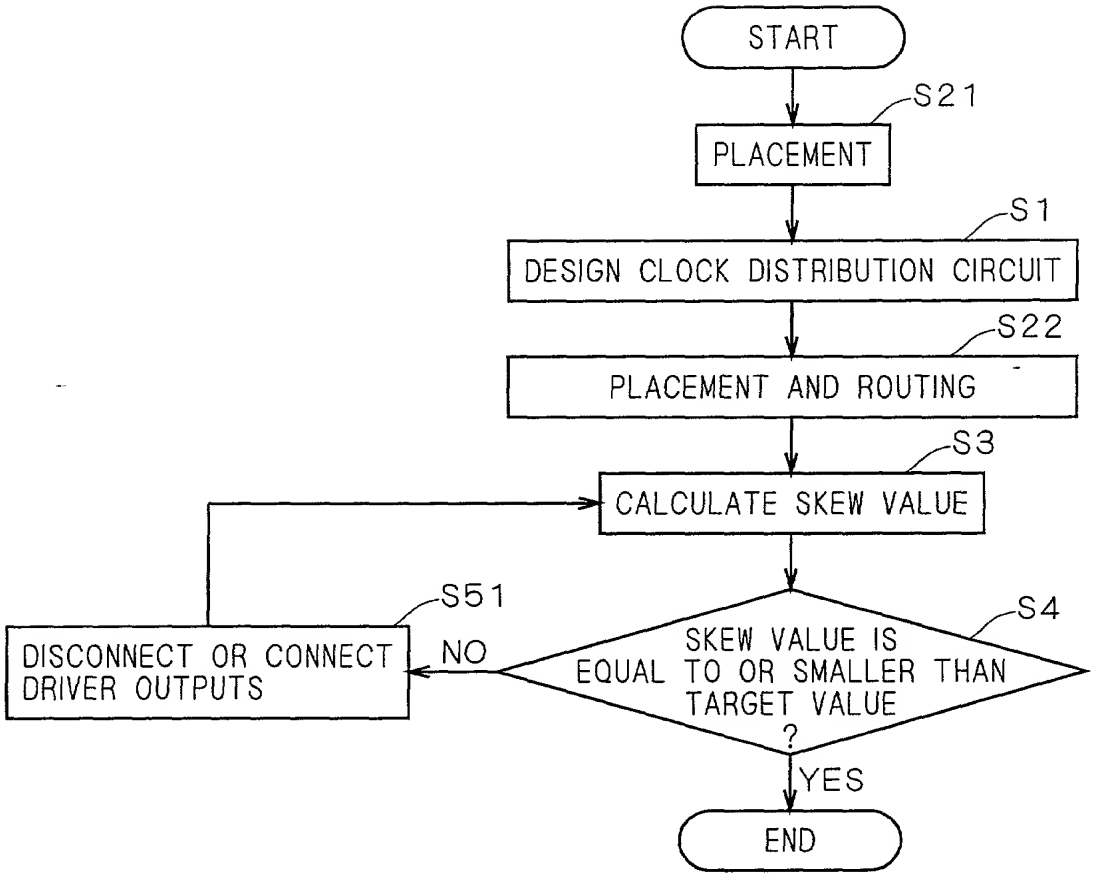

START
S21
PLACEMENT
S1
DESIGN CLOCK DISTRIBUTION CIRCUIT
S22
PLACEMENT AND ROUTING
S3
CALCULATE SKEW VALUE
S4
SKEW VALUE IS EQUAL TO OR SMALLER THAN TARGET VALUE ?
NO
S51
DISCONNECT OR CONNECT DRIVER OUTPUTS
YES
END

FIG. 4

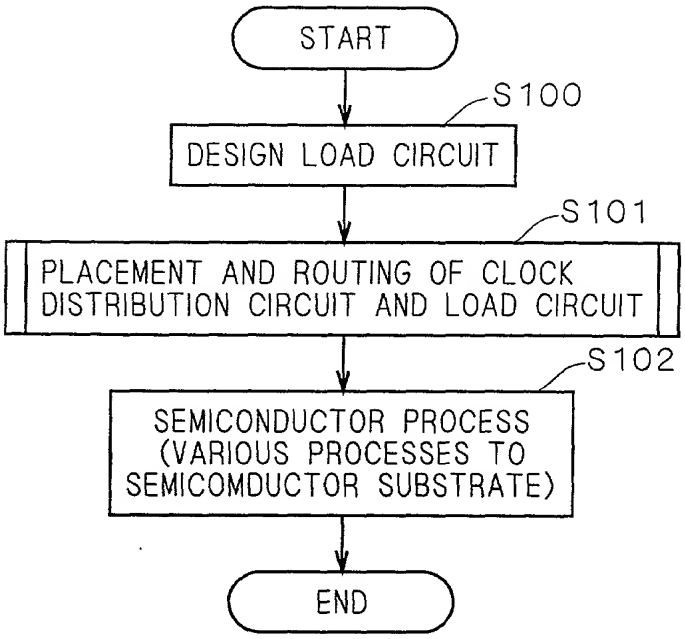
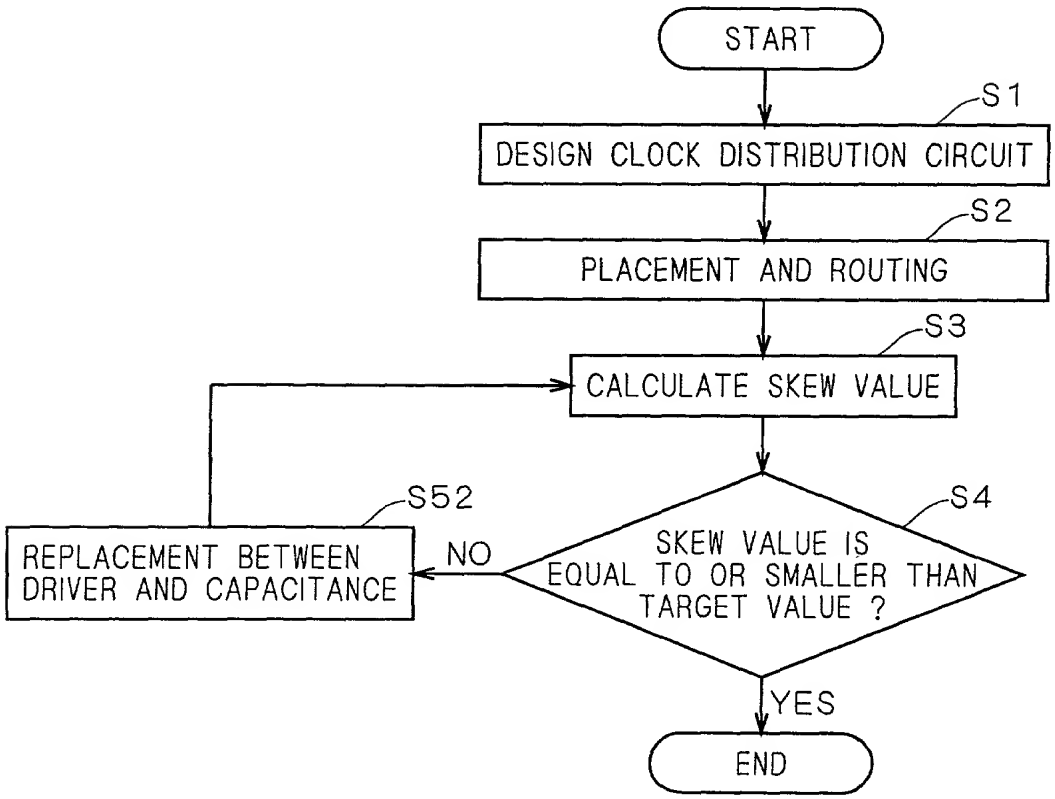


FIG. 5



0050205.0050804

FIG. 6

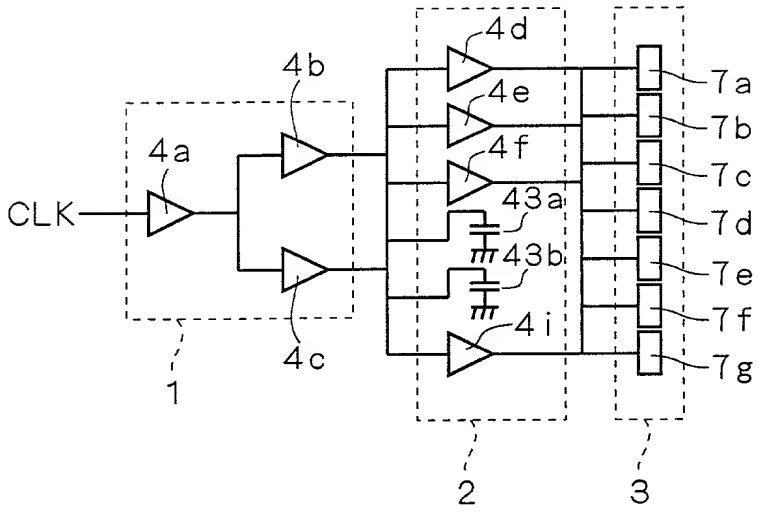

CLK
4a
4b
4c
4d
4e
4f
43a
43b
4i
7a
7b
7c
7d
7e
7f
7g
1
2
3

FIG. 7

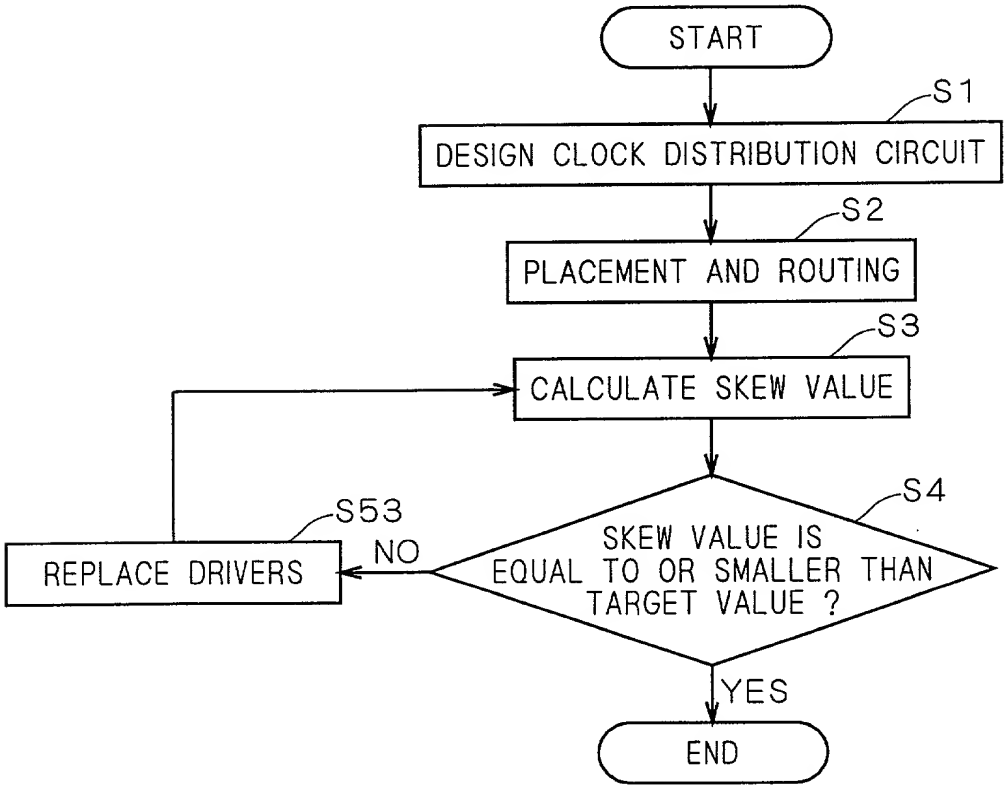

START
S1
DESIGN CLOCK DISTRIBUTION CIRCUIT
S2
PLACEMENT AND ROUTING
S3
CALCULATE SKEW VALUE
S4
SKEW VALUE IS EQUAL TO OR SMALLER THAN TARGET VALUE ?
NO
S53
REPLACE DRIVERS
YES
END

FIG. 8

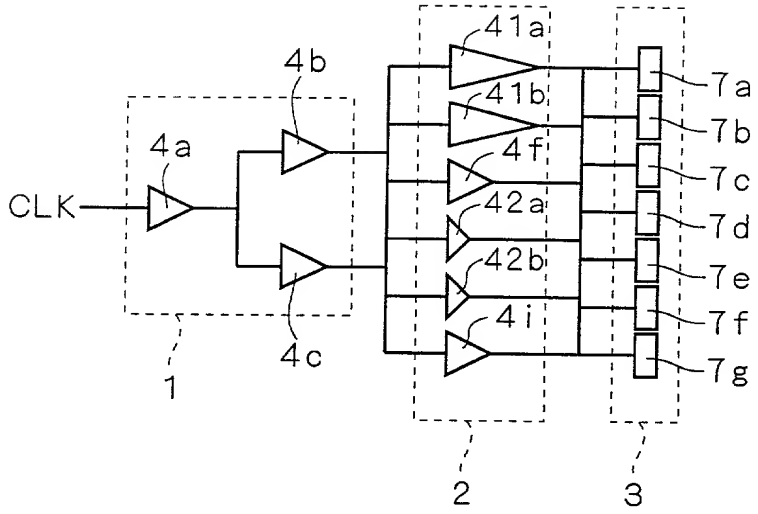

41a
4b
41b
7a
7b
4a
4f
7c
CLK
42a
7d
42b
7e
4i
7f
7g
1
4c
2
3

FIG. 9

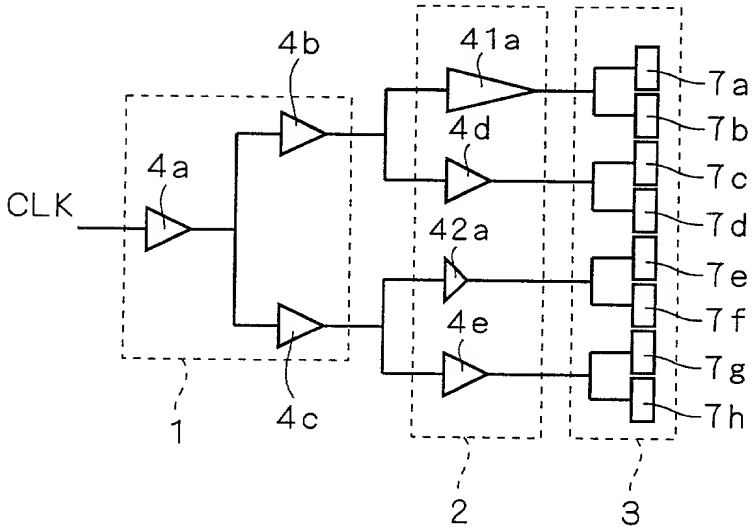

4b
41a
7a
4d
7b
4a
7c
CLK
7d
42a
7e
4e
7f
7g
7h
1
4c
2
3

FIG. 10 (BACKGROUND ART)

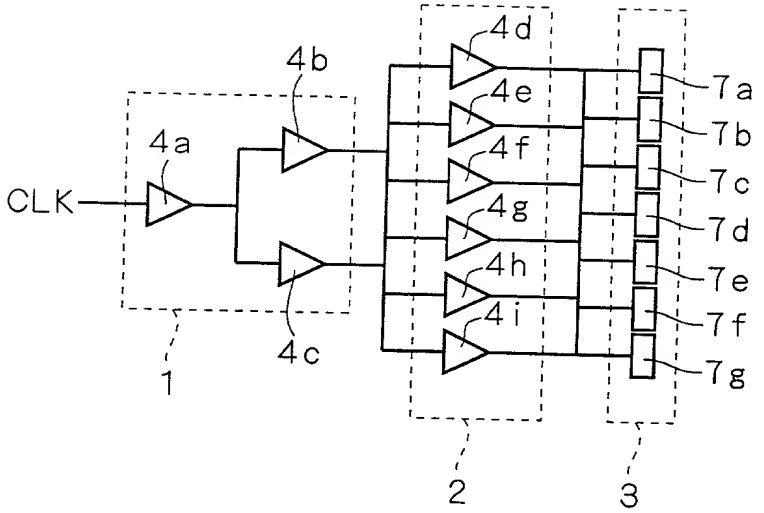


FIG. 11 (BACKGROUND ART)

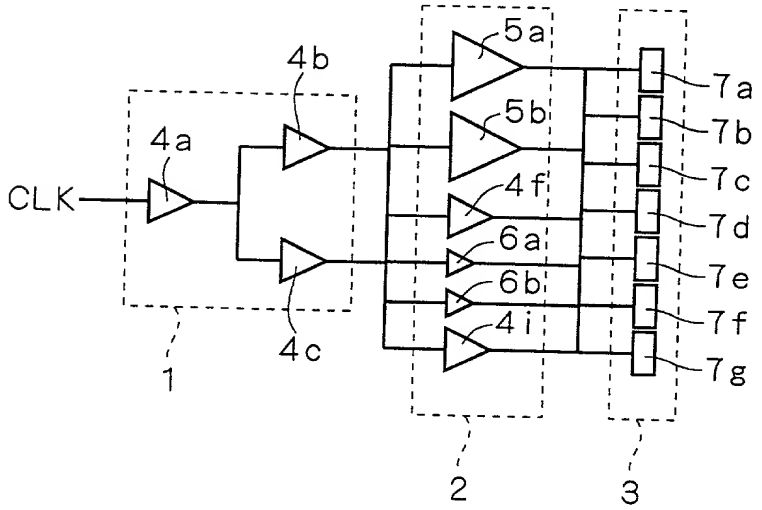
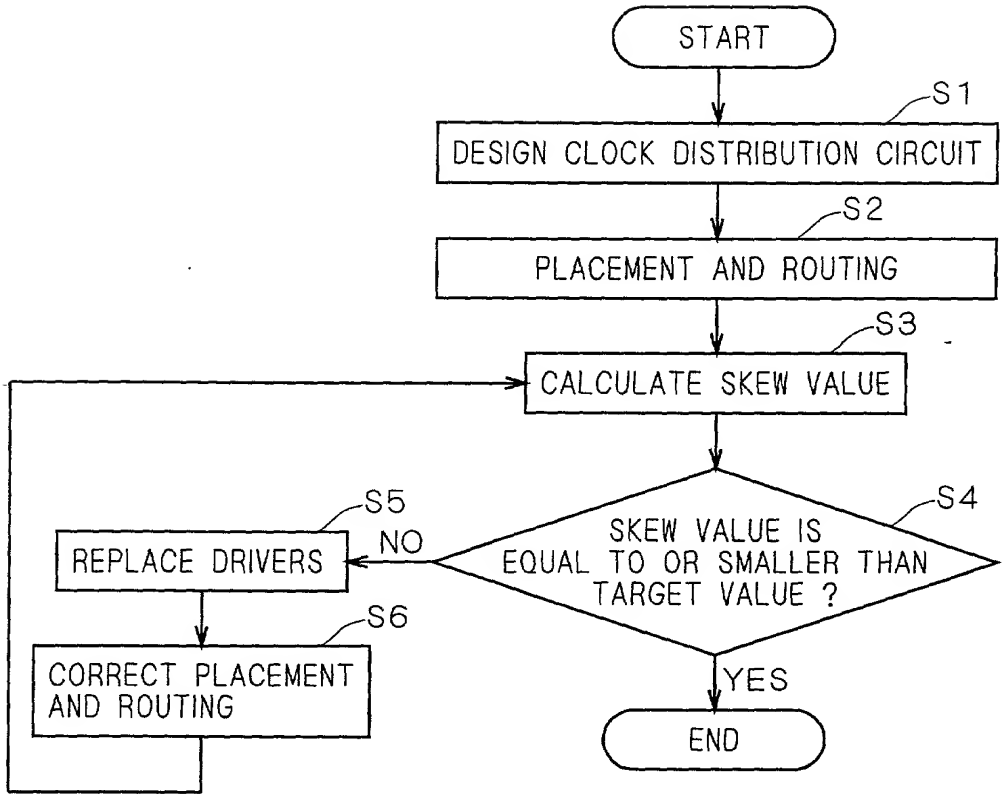



FIG. 12 (BACKGROUND ART)